

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	267408	(edg\$4 or contour\$3)same(target\$4 or segment\$6 or divid\$3 or partition\$3 or partial\$3 or portion\$3 or region\$3 or extract\$3 or block\$3 or sampl\$4 or cut\$4)same(filter\$3 or correct\$4 or adjust\$4 or enhanc\$6 or smooth\$3 or eliminat\$6)	US-PGPUB; USPAT	OR	ON	2007/07/03 08:15
L2	63819	1 same(compar\$6 or correlat\$4 or associat\$4 or match\$3 or similar\$4)	US-PGPUB; USPAT	OR	ON	2007/07/03 08:16
L3	5663	2 same(anomal\$4 or unsharp\$3 or distort\$4 or dust\$3 or scratch\$3 or nois\$3 or saturat\$4 or bright\$3 or blur\$3 or artifact\$3)	US-PGPUB; USPAT	OR	ON	2007/07/03 08:16
L4	1419	3 same(calculate\$4 or comput\$6 or measure\$6 or estimate\$6)	US-PGPUB; USPAT	OR	ON	2007/07/03 08:16
L5	313	4 same(color\$2 or colour\$4 or RGB\$2 or ton\$4 or grey\$3 or gray\$3 or black\$3 or whit\$3)	US-PGPUB; USPAT	OR	ON	2007/07/03 08:17
L6	223	5 same(scan\$4 or read\$3 or captur\$3 or extract\$6 or camera\$3 or detect\$6)	US-PGPUB; USPAT	OR	ON	2007/07/03 08:17
L7	116	6 same(binari\$6 or grey\$4 or gray\$4 or black\$4 or whit\$3)	US-PGPUB; USPAT	OR	ON	2007/07/03 08:18
L8	49	7 same(transform\$3 or convert\$4 or chang\$3 or alter\$4)	US-PGPUB; USPAT	OR	ON	2007/07/03 08:18
L9	25776	(imag\$4)same(edg\$4 or contour\$3)same(target\$4 or segment\$6 or divid\$3 or partition\$3 or partial\$3 or portion\$3 or region\$3 or extract\$3 or block\$3 or sampl\$4 or cut\$4)same(filter\$3 or correct\$4 or adjust\$4 or enhanc\$6 or smooth\$3 or eliminat\$6)	US-PGPUB; USPAT	OR	ON	2007/07/03 08:15
L10	8169	9 same(compar\$6 or correlat\$4 or associat\$4 or match\$3 or similar\$4)	US-PGPUB; USPAT	OR	ON	2007/07/03 08:16
L11	2089	10 same(anomal\$4 or unsharp\$3 or distort\$4 or dust\$3 or scratch\$3 or nois\$3 or saturat\$4 or bright\$3 or blur\$3 or artifact\$3)	US-PGPUB; USPAT	OR	ON	2007/07/03 08:16
L12	745	11 same(calculate\$4 or comput\$6 or measure\$6 or estimate\$6)	US-PGPUB; USPAT	OR	ON	2007/07/03 08:16
L13	219	12 same(color\$2 or colour\$4 or RGB\$2 or ton\$4 or grey\$3 or gray\$3 or black\$3 or whit\$3)	US-PGPUB; USPAT	OR	ON	2007/07/03 08:17
L14	164	13 same(scan\$4 or read\$3 or captur\$3 or extract\$6 or camera\$3 or detect\$6)	US-PGPUB; USPAT	OR	ON	2007/07/03 08:17

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L15	164	14 same(scan\$4 or read\$3 or captur\$3 or extract\$6 or camera\$3 or detect\$6)	US-PGPUB; USPAT	OR	ON	2007/07/03 08:17
L16	90	15 same(binar\$6 or grey\$4 or gray\$4 or black\$4 or whit\$3)	US-PGPUB; USPAT	OR	ON	2007/07/03 08:18
L17	44	16 same(transform\$3 or convert\$4 or chang\$3 or alter\$4)	US-PGPUB; USPAT	OR	ON	2007/07/03 08:18
L18	1	"5450126".PN.	USPAT; USOCR	OR	ON	2007/07/03 08:23
L19	1	"5371539".PN.	USPAT; USOCR	OR	ON	2007/07/03 08:23
L20	1	"5291300".PN.	USPAT; USOCR	OR	ON	2007/07/03 08:24
L21	1	"5291300".PN.	USPAT; USOCR	OR	ON	2007/07/03 08:24
L22	1	"5289274".PN.	USPAT; USOCR	OR	ON	2007/07/03 08:25
L23	1	"6674427".PN.	USPAT; USOCR	OR	ON	2007/07/03 08:25
L24	1	"6456326".PN.	USPAT; USOCR	OR	ON	2007/07/03 08:25
L25	1	"6366317".PN.	USPAT; USOCR	OR	ON	2007/07/03 08:25
L26	1	"6344877".PN.	USPAT; USOCR	OR	ON	2007/07/03 08:26
L27	1	"6248991".PN.	USPAT; USOCR	OR	ON	2007/07/03 08:26
L28	1	"6141441".PN.	USPAT; USOCR	OR	ON	2007/07/03 08:26
L29	1	"6668090".PN.	USPAT; USOCR	OR	ON	2007/07/03 09:53
L30	1	"6658159".PN.	USPAT; USOCR	OR	ON	2007/07/03 09:53
L31	1	"6650782".PN.	USPAT; USOCR	OR	ON	2007/07/03 09:54
L32	1	"6625321".PN.	USPAT; USOCR	OR	ON	2007/07/03 09:54
L33	1	"6606416".PN.	USPAT; USOCR	OR	ON	2007/07/03 09:54
L34	1	"6549673".PN.	USPAT; USOCR	OR	ON	2007/07/03 09:54
L35	1	"6546143".PN.	USPAT; USOCR	OR	ON	2007/07/03 09:55
L36	1	"6492916".PN.	USPAT; USOCR	OR	ON	2007/07/03 09:55

## EAST Search History

L37	1	"6486981".PN.	USPAT; USOCR	OR	ON	2007/07/03 09:56
L38	6	(edg\$4 and extract\$4 and smooth\$4 and differen\$4 and calculat\$4 and binari\$6 and imag\$4).clm.	US-PGPUB; USPAT	OR	ON	2007/07/03 09:58
L39	4	(edg\$4 and extract\$4 and smooth\$4 and differen\$4 and between and calculat\$4 and binari\$6 and imag\$4).clm.	US-PGPUB; USPAT	OR	ON	2007/07/03 09:59

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**Key:** IEEE JNL = IEEE Journal or Magazine, IEE JNL = IEE Journal or Magazine, IEEE CNF = IEEE Conference, II CNF = IEE Conference, IEEE STD = IEEE Standard

1. **An Improved Cast Shadow Detection Method with Edge Refinement**  
Yuqi Wang; Miao Tang; Guangxi Zhu;  
Intelligent Systems Design and Applications, 2006. ISDA '06. Sixth International Conference on  
Volume 2, Oct. 2006 Page(s):794 - 799  
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2. **Investigation of robust color model for edge detection on text extraction from scenery images**  
Yang, X.; Takahashi, H.; Nakajima, M.;  
TENCON 2004. 2004 IEEE Region 10 Conference  
Volume B, 21-24 Nov. 2004 Page(s):85 - 88 Vol. 2  
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3. **A real-time histographic approach to road sign recognition**  
Estevez, L.; Kehtarnavaz, N.;  
Image Analysis and Interpretation, 1996., Proceedings of the IEEE Southwest Symposium on  
8-9 April 1996 Page(s):95 - 100  
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4. **Constellation labeling for linear encoders**  
Wesel, R.D.; Xueting Liu; Cioffi, J.M.; Kominakis, C.;  
Information Theory, IEEE Transactions on  
Volume 47, Issue 6, Sept. 2001 Page(s):2417 - 2431  
IEEE JNL
5. **Automatic image segmentation by integrating color-edge extraction and seeded region growing**  
Jianping Fan; Yau, D.K.Y.; Elmagarmid, A.K.; Aref, W.G.;  
Image Processing, IEEE Transactions on  
Volume 10, Issue 10, Oct. 2001 Page(s):1454 - 1466  
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6. **Contour line and geographic feature extraction from USGS color topographical paper maps**  
Khotanzad, A.; Zink, E.;  
Pattern Analysis and Machine Intelligence, IEEE Transactions on  
Volume 25, Issue 1, Jan. 2003 Page(s):18 - 31  
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7. **Text extraction from name cards with complex design**  
Lin Lin; Chew Lim Tan;  
Document Analysis and Recognition, 2005. Proceedings. Eighth International Conference on  
29 Aug.-1 Sept. 2005 Page(s):977 - 980 Vol. 2  
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8. **Automatic object segmentation using active shape models with enhancing feature salience**  
Min Jiang; GuiMin He; ZhaoHui Gan;  
Communications, Circuits and Systems, 2005. Proceedings. 2005 International Conference on  
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9. **Elevation contours extraction from a color-coded relief scanned map**  
Rus, C.; Rusu, C.; Astola, J.;  
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Volume 3, 24-27 Oct. 2004 Page(s):1699 - 1702 Vol. 3  
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10. **A new color image segmentation algorithm based on watershed transformation**  
Kazanov, M.;  
Pattern Recognition, 2004. ICPR 2004. Proceedings of the 17th International Conference on  
Volume 2, 23-26 Aug. 2004 Page(s):590 - 593 Vol.2  
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11. **Robust lip contour extraction using separability of multi-dimensional distributions**  
Wakasugi, T.; Nishiura, M.; Fukui, K.;  
Automatic Face and Gesture Recognition, 2004. Proceedings. Sixth IEEE International Conference on  
17-19 May 2004 Page(s):415 - 420  
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12. **Automatic date imprint extraction from natural images**  
Xi Zhu; Xinggang Lin;  
Information, Communications and Signal Processing, 2003 and the Fourth Pacific Rim Conference on Multimedia.  
Proceedings of the 2003 Joint Conference of the Fourth International Conference on  
Volume 1, 15-18 Dec. 2003 Page(s):518 - 522 Vol.1  
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13. **Color image segmentation via fuzzy feature tuning and feature adjustment**  
Chin-Yuan Chang; Wen-Shiuan Shie; Jung-Hua Wang;  
Systems, Man and Cybernetics, 2002 IEEE International Conference on  
Volume 4, 6-9 Oct. 2002 Page(s):6 pp. vol.4  
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14. **An edge and color oriented optical flow estimation using block matching**  
Dengsheng Zhang; Guojun Lu;  
Signal Processing Proceedings, 2000. WCCC-ICSP 2000. 5th International Conference on  
Volume 2, 21-25 Aug. 2000 Page(s):1026 - 1032 vol.2  
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15. **Edge profile optimal constellation labeling**  
Wesel, R.D.; Xueting Liu;  
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Volume 3, 18-22 June 2000 Page(s):1198 - 1202 vol.3  
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16. **Feature extraction of edge by directional computation of gray-scale variation**  
Keun-Chung Kim; Doo-Young Kim; Aggarwal, J.K.;  
Pattern Recognition, 1998. Proceedings. Fourteenth International Conference on  
Volume 2, 16-20 Aug. 1998 Page(s):1022 - 1027 vol.2  
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17. **Face and facial feature extraction from color image**  
Wu, H.; Yokoyama, T.; Pramadihanto, D.; Yachida, M.;  
Automatic Face and Gesture Recognition, 1996., Proceedings of the Second International Conference on  
14-16 Oct. 1996 Page(s):345 - 350  
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18. **Fusion of color and edge information for improved segmentation and edge linking**  
Saber, E.; Tekalp, A.M.; Bozdagi, G.;

Acoustics, Speech, and Signal Processing, 1996. ICASSP-96. Conference Proceedings., 1996 IEEE International Conference on  
Volume 4, 7-10 May 1996 Page(s):2176 - 2179 vol. 4  
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**19. A graph-theoretic approach to colour image segmentation and contour classification**

Vlachos, T.; Constantinides, A.G.;  
Image Processing and its Applications, 1992., International Conference on  
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**20. Stroke-model-based character extraction from gray-level document images**

Xiangyun Ye; Cheriet, M.; Suen, C.Y.;  
Image Processing, IEEE Transactions on  
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**21. Geodesic Active Contour Based Fusion of Visible and Infrared Video for Persistent Object Tracking**

Bunyak, F.; Palaniappan, K.; Nath, S.K.; Seetharaman, G.;  
Applications of Computer Vision, 2007. WACV '07. IEEE Workshop on  
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**22. An accurate and low complexity approach of detecting circular shape objects in still color images**

Liu Yangxing; Goto Satoshi; Ikenaga Takeshi;  
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**23. Automatic text detection in complex color image**

Jiang Wu; Shao-Lin Qu; Qing Zhuo; Wen-Yuan Wang;  
Machine Learning and Cybernetics, 2002. Proceedings. 2002 International Conference on  
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**24. Detection and location of people in video streams by fusion of color, edge and motion information**

Zhengping Wu; Jiajun Bu; Chun Chen;  
Image Processing, 2002. Proceedings. 2002 International Conference on  
Volume 3, 24-28 June 2002 Page(s):III-449 - III-452 vol.3

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**25. A Markov random fields model for hybrid edge- and region-based color image segmentation**

Wesolkowski, S.; Fieguth, P.;  
Electrical and Computer Engineering, 2002. IEEE CCECE 2002. Canadian Conference on  
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